SYSMAIN Parameters and Keywords

Parameters and keywords are the selection criteria used to identify the objects to be processed by the SYSMAIN utility.

Parameters are applicable online and in batch mode; however when using direct commands, a parameter must normally be preceded, or in some cases replaced, by a keyword.

In the following section, keywords are listed under the parameter to which they correspond. They are also included in the direct command syntax for each command.

Parameters are listed alphabetically in this section. They correspond to input fields on a menu screen. After each parameter, its format and length is indicated in parentheses.

A - P	**R - S**	**T - Z**
CRITERIA (A1)	REPLACE (A1)	TARGET CIPHER (A8)
DATE FROM (A10)	RULE NAME (A32)	TARGET DATABASE (N5)
DATE TO (A10)	RULE TYPE (A2)	TARGET FILE (N5)
DDM DBID (N5)	SELECTION LIST (A1)	TARGET LANGUAGE (A9)
DDM FNR (N5)	SET NUMBER (N2)	TARGET LIBRARY (A8)
DDM NAME (A32)	SET USER (A8)	TARGET NAME (A8)
ENVIRONMENT NAME (A8)	SOURCE CIPHER (A8)	TARGET PASSWORD (A8)
ERROR NUMBER FROM (N4)	SOURCE DATABASE (N5)	TERMINAL ID (A8)
ERROR NUMBER TO (N4)	SOURCE FILE (N5)	TIME FROM (A5)
ERROR TYPE (A1)	SOURCE LANGUAGE (A9)	TIME TO (A5)
FDIC (A27)	SOURCE LIBRARY (A8)	USER ID (A8)
FSEC (A27)	SOURCE NAME (A8)	XREF (A1)
NEW NAME (A8)	SOURCE PASSWORD (A8)	
NEW NUMBER FROM (N4)	SUBFILE NAME (A8)	
NEW NUMBER TO (N4)	SUBFILE TYPE (A3)	
OBJECT NAME (A9)		
OBJECT TYPE (A15)		
PROFILE NAME (A8)		
PROFILE TYPE (A3)		

This section also covers the following topics:

- Description of Parameters and Keywords
- Additional Keywords for Direct Commands
- Range Notation for SYSMAIN Parameters

Description of Parameters and Keywords

CRITERIA (A1)

This parameter indicates whether additional selection criteria are to be used. If you are working in menu-driven mode, the following values can be entered in the input field:

?	A window with help information about the Criteria parameter appears.
N	No additional selection criteria are to be used. (This is the default.)
Y	A window is displayed where you can specify the additional selection criteria listed below.

OBJECT TYPE (A15)

Keyword: **TYPE**

The specific type of programming object to be processed (see description of the OBJECT TYPE parameter of the programming objects processing screens).

In menu-driven mode, you can obtain a list of all programming object types available when you enter a question mark (?) in the Type field; a corresponding window appears.

If one or more object types have already been specified on the corresponding programming object processing screen, the OBJECT TYPE parameter of the additional criteria window is already preset with the same specification when the window appears.

DATE FROM (A10)

Keyword: **FMDATE**

Date on which the programming object was cataloged or saved. All programming objects cataloged or saved on or after this date are selected. The date must be specified according to the setting of the DTFORM parameter.

TIME FROM (A5)

Keyword: **FMTIME**

Time on which the programming object was cataloged or saved on a specific date. All programming objects cataloged or saved on or after this date and time are selected. The time must be specified in the format *HH:II* (HH = hours, II = minutes).

DATE TO (A10)

Keyword: **TODATE**

If entered alone (not in conjunction with the Date From parameter), all programming objects cataloged or saved up to this date are selected. The date must be specified according to the setting of the DTFORM parameter.

A date range can be specified by entering Date From and Date To values.

TIME TO (A5)

Keyword: **TOTIME**

If entered alone (not in conjunction with the Time From parameter), all programming objects cataloged or saved up to this time on a specific date are selected.The time must be specified in the format *HH:II* (HH = hours, II = minutes).

A time range can be specified by entering Time From and Time To values.

USER ID (A8)

Keyword: **USER**

All programming objects cataloged or saved by the specified user are selected.

TERMINAL ID (A8)

Keyword: **TID**

All programming objects cataloged or saved on the specified terminal are selected.

DDM DBID (N5)

Keyword: **VDBID**

Specific DBID under which a DDM was cataloged. Only DDMs with this DBID are processed. If this parameter is left blank or a **0** is entered, there is no database verification and all databases are selected.

DDM FNR (N5)

Keyword: **VFNR**

Specific FNR under which a DDM was cataloged. Only DDMs with this FNR are processed. If this parameter is left blank or a **0** is entered, there is no file number verification and all file numbers are selected.

DDM NAME (A32)

The name of the DDM to be processed. See also Range Notation for SYSMAIN Parameters.

ENVIRONMENT NAME (A8)

The name of the debug environment to be processed. See also Range Notation for SYSMAIN Parameters.

ERROR NUMBER FROM (N4)

The number of the error message to be processed. Each Natural or user-supplied error message within a Natural library is uniquely defined by the error number.

ERROR NUMBER TO (N4)

Keyword: **THRU**

Used in conjunction with the Error Number From parameter to specify a range of error numbers.

ERROR TYPE (A1)

Keyword: **TYPE**

The specific type of error message to be processed:

S	short error message
E	extended error message
A	all error message types (default)

Note:
This parameter is only applicable with direct commands. In menu-driven mode, error message types are shown as subfunctions.

FDIC (A27)

Keyword: **DIC**

Specifies the Adabas security for the FDIC source and/or target system file. (See the sections on direct commands for specific objects for details regarding syntax.)

FSEC (A27)

Keyword: **SEC**

Specifies the Adabas security for the FSEC source and/or target system file. (See the sections on direct commands for specific objects for details regarding syntax.)

NEW NAME (A8)

Keyword: **AS**

The name to be given to a programming object, debug environment, profile **or** rule when it is renamed with the RENAME function.

NEW NUMBER FROM (N4)

Keyword: **AS**

The new number to be assigned to an error message when it is renamed with the RENAME function.

NEW NUMBER TO (N4)

Keyword: **THRU**

Used in conjunction with the New Number From parameter to specify a range of error numbers.

If you are renumbering a range of error messages within the same environment, the range values must not overlap. For example, it is not possible to rename error numbers 1 - 6 as new error numbers 5 - 10.

OBJECT NAME (A9)

The name of the programming object to be processed. If the LIST function is selected, this parameter is referred to as **OBJECT NAME START VALUE** (see also Range Notation for SYSMAIN Parameters).

OBJECT TYPE (A15)

Keyword: **TYPE**

The specific type of programming object to be processed:

P	program
N	subprogram
S	subroutine
M	map
H	helproutine
Y	expert model
R	report
A	parameter data area
G	global data area
L	local data area
C	copycode
T	text
Z	recording
O	ISPF macro
3	dialog
4	class
5	processor
*	all programming object types (default)

Note:
You can specify several types at the same time and in any sequence. For example, if you specify PAM, programs, parameter data areas and maps are processed.

If one or more object types have already been specified in the window for additional selection criteria, the same specification is displayed for the OBJECT TYPE parameter in the corresponding programming object processing screen, once you have left the window (see also the OBJECT TYPE parameter as part of the enhanced selection criteria).

PROFILE NAME (A8)

The name of the profile to be processed. See also Range Notation for SYSMAIN Parameters.

PROFILE TYPE (A3)

Keyword: **TYPE**

The specific type of profile to be processed:

E	editor profile
D	device profile
M	map profile
P	parameter profile
*	editor, device and map profiles (default)

REPLACE (A1)

Keyword: **REP**

Replace option for an object which is being moved, copied or renamed. If you are working in menu-driven mode, the following values can be entered in the input field:

Y	An object with the same name which is already present in the Target library is to be replaced.
N	An object with the same name which is already present in the Target library is not to be replaced. **N** is the default.

Note:
If a programming object is replaced it is also deleted from the Natural buffer pool; any existing cross-reference records are also deleted if Predict is installed.

RULE NAME (A32)

The name of the rule (automatic or free rule) to be processed. See also Range Notation for SYSMAIN Parameters.

RULE TYPE (A2)

Keyword: **TYPE**

The specific type of rule to be processed:

A	automatic rule
F	free rule
AF	both automatic and free rules

SELECTION LIST (A1)

Keyword: **HELP**

Indicates whether automated or selective processing is to apply to an object. If you are working in menu-driven mode, you can enter the following values in the input field:

Y	A Selection List is displayed containing all objects which meet the specified selection criteria. You can select objects to be processed; see Selective Processing. **Y** is the default.
N	Objects are processed automatically, without display of an intervening selection list; see also Automated Processing.

SET NUMBER (N2)

Keyword: **SETN**

Supports Predict Sets. Number of the retained Set created with the Predict XREF Save Set facility. You can apply all SYSMAIN processing functions to the objects included in this Set.

If any valid number is specified, SYSMAIN assumes a Predict Set. If no number is specified, normal object processing is assumed.

SET USER (A8)

Keyword: **SETU**

Provides the possibility to overwrite the User ID specification for a Predict Set as a part of the security for Predict files. If you are working in menu-driven mode, the security for Predict (FDIC) Files screen is invoked by entering the SET FDIC command or by pressing PF11 (Fdic) in any programming object processing screen.

Note:
SET USER is only evaluated if a valid number has been specified for SET NUMBER.

SOURCE CIPHER (A8)

Keyword: **CIPH**

Cipher key of the Source file (used in the *where-clause*).

SOURCE DATABASE (N5)

Keyword: **DBID**

The number of the database (1 - 253) which contains the object to be processed.

SOURCE FILE (N5)

Keyword: **FNR**

The number (1 - 255) of the Natural FNAT, FDIC or FUSER file which contains the object to be processed.

SOURCE LANGUAGE (A9)

Keyword: **LANG**

The language in which the error message is written.

Each error message within each library can exist in 1 to 60 languages. The languages can be specified using any combination of language codes.

For information on which language code is assigned to which language, see the Natural system variable *LANGUAGE in the Natural System Variables documentation.

To select error messages in all existing languages, asterisk notation (*) can be used.

SOURCE LIBRARY (A8)

Keyword: **LIB**

The name of the library which contains the object to be processed or to which the error message is assigned.

If error messages are processed and the field is left blank, the Natural system error messages are processed.

SOURCE NAME (A8)

Keyword: **NAME**

The DDNAME/FCT entry for the Source file number (VSAM only).

SOURCE PASSWORD (A8)

Keyword: **PSW**

Password for the Source file (used in the *where-clause*).

SUBFILE NAME (A8)

The name of the DL/I subfile to be processed. See also Range Notation for SYSMAIN Parameters.

SUBFILE TYPE (A3)

Keyword: **TYPE**

The specific type of DL/I subfile (Natural NSB, NDB or UDF) to be processed.

TARGET CIPHER (A8)

Keyword: **CIPH**

Cipher key of the Target file (used in *where-clause*).

TARGET DATABASE (N5)

Keyword: **DBID**

The number of the database into which the object is to be moved or copied.

TARGET FILE (N5)

Keyword: **FNR**

The number of the Natural system file or Predict file into which the object is to be moved or copied.

TARGET LANGUAGE (A9)

Keyword: **TO, LANG**

The language in which the error message is to be written.

Each error message within each library can exist in 1 to 60 languages. The languages can be specified using any combination of language codes. For information about language codes, see the system variable *LANGUAGE in the Natural System Variables documentation.

TARGET LIBRARY (A8)

Keyword: **LIB**

The name of the library into which the object is to be placed or to which the error message is to be assigned.

If error messages are processed and the field is left blank, the Natural system error messages are processed.

TARGET NAME (A8)

Keyword: **NAME**

The DDNAME/FCT entry for the Target file number (VSAM only).

TARGET PASSWORD (A8)

Keyword: **PSW**

Password for the Target file (used in the *where-clause*).

XREF (A1)

Keyword: **XREF**

Indicates whether SYSMAIN is to support XREF data stored on Predict system files.

N	Cross-reference data are not processed, except when using the DELETE function. If a cataloged object is deleted, SYSMAIN always deletes any existing XREF data for this object.
Y	All cross-reference data are processed.
S	A specified object is processed regardless of whether it has cross-reference data or not. Any existing XREF data are processed, which means that the fact that objects have or have no XREF data is no criterion for rejecting the processing of an object.
F	All cross-reference data are processed and the object must be documented in Predict.

Additional Keywords for Direct Commands

In addition to the keywords shown with the parameters above, the following keywords can also be used with direct commands to specify selection criteria:

Keywords	Explanation
ALL	All saved and/or cataloged programming objects are selected for processing.
CAT	All cataloged programming objects are selected for processing. (Any corresponding saved programming object is not processed.)
EXTEND	Refers to the List Objects function. If EXTEND is specified, the saved object is also displayed; if EXTEND is not specified, only the object name and directory information are displayed (in batch mode only).
HELP	Activates online selective processing.
IN/FM	Refers to a source environment.
MON	Activates online trace facility.
NOPROMPT	Suppresses all prompts.
RCOP	Used with direct commands to specify that a copy of the object being renamed is to be made.
SAVED	All saved programming objects are selected for processing. (Any corresponding cataloged object is not processed.)
STOWED	All programming objects which are both saved and cataloged are selected for processing.
TO	Refers to a target environment.
WITH	Optional keyword to indicate the start of a *with-clause*.
WHERE	Optional keyword to indicate the start of a *where-clause*.
.	End of command. If this character is detected anywhere within a command string, all subsequent data are ignored.

Range Notation for SYSMAIN Parameters

All SYSMAIN functions allow the Environment Name, Object (Source) Name, Profile Name, Rule Name, Subfile Name and DDM Name parameters to be specified as a range.

In addition, the "Object Start Value" and "Reposition to" fields for the FIND and LIST functions also specify a range.

With the FIND and LIST functions, also a range of libraries with programming objects can be specified with the Source Library parameter. The same applies to the LIST function with debug environments and to the FIND function with error messages. Using this option, however, can be rather time-consuming depending on how often the selection criteria occur.

You can use the following range notation:

*value******	All libraries or objects whose names begin with *value* are processed. Example: A value of MENU* results in processing of all libraries or objects with a name beginning with MENU, such as MENU1, MENUOFF and MENUX. **Note:** A question mark (?) has the same effect as an asterisk (*).
value>	All libraries or objects whose names begin with a value greater than or equal to *value* are processed. Example: A value of MEN> results in processing of all libraries or objects whose name begins with a value greater than or equal to MEN, such as MENU, ORDER, SYSDDM and TRS.
value<	All libraries or objects whose names begin with a value less than or equal to *value* are processed. Example: A value of MEN< results in processing of all libraries or objects whose name begins with a value less than or equal to MEN, such as MAINMENU, CMD and ADALOG.

